



# भारत का राजपत्र The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि वह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 17th August 1985

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Calcutta-700 017.

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Calcutta-700 020.

## CORRIGENDUM

(1)

In the Gazette of India Part III, Section 2 dated 7th July 1979 under the heading "PATENTS SEALED" delete 144502.

(2)

In the Gazette of India Part III Section 2 dated the 26th January, 1985 under the heading "PATENTS SEALED" delete 152692.

## APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 11th July 1985

512/Cal/85 Oliver Rubber Company. Improved tire envelope sealing apparatus for recapping tires.

513/Cal/85 Japan Pipe Conveyor Co. Ltd and Haruo Okazaki. Mobile pipe conveyor system and method of using said system for reclaiming and leaving grounds.

The 12th July 1985

514/Cal/85 Betz International, Inc. Water soluble polymers and methods of use thereof (2nd October, 1984) Canada.

The 15th July 1985

515/Cal/85 Dr. Nihalendu Bikas Sinha. New Invention for dissolving stones formed in Gall bladder or in Kidney or in any Urinary system by using few chelate compounds without any operation.

516/Cal/85 Hoechst Aktiengesellschaft. Substituted phenyl hydroxyethyl sulfones, and process for their preparation

517/Cal/85. Gesika Buromobelwerk GMBH & Co. KG. Office furniture with metallic structure.

518/Cal/85. Lal Ratnakar. Continuous pumped storage system.

519/Cal/85. Hoechst Aktiengesellschaft. Water-soluble triphenyldioxazine compounds, processes for their preparation and their use as dyestuffs.

520/Cal/85. Saarbergwerke Aktiengesellschaft. A jamming machine to produce compressed coal-cakes for coking.

521/Cal/85. Ethicon, Inc. Dry coating of surgical filaments.

522/Cal/85. I.S.I. Technologies, Inc. Tracer Ammunition.

The 16th July, 1985

523/Cal/85. M. G. Commercial Private Ltd. A novel unit for forming structures provided with interstices like meshes, nets and fences and a method for manufacturing thereof.

524/Cal/85. Deussa Aktiengesellschaft. Synthetic silicate fillers modified on the surface, a process for their production and the use thereof

525/Cal/85. Betz International, Inc. Control of corrosion of ferrous metal parts or surfaces in contact with aqueous medium containing copper ions. (12th February, 1985) Canada.

The 17th July, 1985

526/Cal/85 Vanagala Pattabhi. An improved apparatus for cutting off sheets of materials formed on a continuously rotating accumulator roll.

527/Cal/85. Societe Les Piles Wonder. Improvements to the nickel hydroxide positive electrodes for alkaline secondary cells.

528/Cal/85 Vanagala Pattabhi. Improved boards or sheets made from non-asbestos fibrous material and to an improved method of manufacturing the same

529/Cal/85 Vanagala Pattabhi. Novel board made from non-asbestos reinforcing materials and to a method of manufacturing the same.

530/Cal/85. Pebco. In2 Computer controlled load out system

531/Cal/85 Hoechst Aktiengesellschaft. Water-soluble pyridone monoazo compounds, process for their preparation and their use as dyestuffs.

## APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

5-6-1985

142/BOM/85 Chammlal Salecha

A process to manufacture synthetic wood by using hemihydrate of calcium sulphate both as binder and filler and making panel doors of such synthetic timber.

143/BOM/85 Outokumpu Oy

Method and apparatus for batch preparation and feeding into the smelting process.

6-6-1985

144/BOM/85 Waman Gharshyam Desai & P.W. Desai

A process for reclaiming of steel bead wire from waste or scrapped vehicle tyres.

7-6-1985

145/BOM/85 Hindustan Lever Ltd. 15th June, 1984, Gr. Britain.

Built detergent compositions.

10-6-1985

146/BOM/85 Onkar Nath Kapila

Apparatus and process for self generating light

14-6-1985

147/BOM/85 Moti Lal Mittal

MHDP. A computer code for integrating the equations governing the fluid flow, heat transfer and electric potential in the MHD Duct.

148/BOM/85 Kumar Balram Bhatia : Hardness tester for metals.  
17-6-1985

149/BOM/85 Ahmedabad Textile Industry's Research Association Device for determining and monitoring the position of a moving object within a confined space

150/BOM/85 Japan Tobacco Inc Method of manufacturing wrinkled sheet tobacco

19-6-1985

151/BOM/85 K R Dholaria A modified boiler

APPLICATIONS FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS 600 002

The 24th June, 1985

461|Mas|85 A A Nambiar, Amplo

462|Mas|85 Rhone Poulenc Specialities Chimiques, a French Body Corporate Process for producing organic compounds having an alkoxyalkylidene group

463|Mas|85 Dow Chemical Company Selective Absorption of Sulfur Dioxide from gases Containing Sulfur dioxide and Carbon Dioxide

464|Mas|85 Raychem Corporation Method for detecting and for detecting and obtaining information about changes in variables (29th June 1984 (U K))

465|Mas|85 Raychem Corporation Apparatus and Method for detecting and obtaining information about changes in variables (29th June 1984 U K)

466|Mas|85 Charbonnages de France Signal transfer method and equipment for electric machine equipped with three phase power supply cable

467|Mas|85 International Business Machines Corporation A disc drive.

The 25th June, 1985

468|Mas|85 Yuasa Battery Company Limited Method of producing storage battery

469|Mas|85 Yuasa Battery Company Limited, Storage Battery

470|Mas|85 Yuasa Battery Company Limited Storage Battery

471|Mas|85 Pilkington Brothers, PLC Process for Making Cement Composite Materials (6th July 1984 Britain)

472|Mas|85 Owens Illinois Inc High Barrier Polymer & Articles Prepared Therefrom

473|Mas|85 University of Melbourne Chemical Process

474|Mas|85 University of Toronto Innovations Foundation. Method of Separating Solids by Simultaneous Communion and Agglomeration

475|Mas|85 Yuasa Battery Company Limited, Lead-Acid Storage Battery

476|Mas|85 Maschinenfabrik Rieter AG Arrangement for filling a chute with fibre material

477|Mas|85 Ciba Geigy AG Apparatus for Spraying Plant-Protective Agents

The 26th June 1985

478|Mas|85 Theodor Hymmen Arrangement for applying a surface pressure upon movable workpieces

The 26th June, 1985

479|Mas|85 Deutsches Aussätzigen-Hilfswerk e.V. A Drug to Combat Infectious Diseases and A Method for preparing Such A Drug

480|Mas|85 Stamcarbon B.V. Process for preparing Ammonia

481|Mas|85 Sumitomo Chemical Company Ltd Process for preparing nitrogen containing heterocyclic Compounds (Divisional to Patent Application No 289|Mas|84)

The 27th June, 1985

482|Mas|85 M Muthukrishnan New Model Stitching Machine

483|Mas|85 Union Carbide Corporation Process for oxyde hydrogenation of ethane to ethylene

484|Mas|85 British Railways Board Side Wall Frame Assemblies for Railway Carriages [June 29, 1984 U K]

485|Mas|85 Victor Company of Japan Ltd Carrier Caromance Signal Recording and or Reproducing Apparatus

486|Mas|85 Victor Company of Japan Ltd Video Signal Recording and/or Reproducing Apparatus

487|Mas|85 Victor Company of Japan Ltd Noise Reduction System

The 28th June, 1985

488|Mas|85 Lucas Industries Public Limited Company A Signal Transmitter for monitoring a brake lining

489|Mas|85 Stirling Technology Inc Solar Powered Cooking System

490|Mas|85 Multichip Co Ltd Securing Devices (29th June 1984 U K, 14 December, 1984 U K)

491|Mas|85 Hoechst Aktiengesellschaft Polyolefin Mold in Composition

492|Mas|85 Charbonnages de France Valve for the Pneumatic Distribution of Fluidisable Material

493|Mas|85 International Standard Electric Corporation Optical Fibre Manufacture, (July 25, 1984, United Kingdom)

#### COMPLETE SPECIFICATION ACCEPTED

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CLASS : 134-B.

156484.

Int. Cl. F 16 d 13.00.

#### FRICITION CLUTCH

Applicant : MACHINEFABRIEK EN TECHNISCHE HANDELSONDERNEMING M. H. VAN DER GRAAF B. V. OF DE WEYERT 14, 8325 EM VOLLENHOVE, THE NETHERLANDS.

Inventor : I. MEINE HENDRICUS VAN DER GRAAF.

Application No. 428/Cal/82 filed April 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

Friction clutch, provided with a plurality of swivelling levers positioned in longitudinal slots of a hub, an axially displaceable link ring for pressing the operating ends of the levers, at least one friction element opposite a friction face of a portion to be coupled, an axially stationary and an axially shidable thrust ring for pressing the friction element, said thrust ring finding support against the working ends of the levers, characterized in that the hub 3 is coupled in axial direction shidably with one of the shafts 2, and the friction face of a portion to be coupled, usually a drum 4, is fitted with a stop shoulder 28 against which the friction element, comprising a plurality of radially adjacently disposed friction segments, which are kept together by a resilient element, finds support, so that the engagement force is taken up.

Compl. Specn. 6 pages. Drgs. 2 sheets.

CLASS : 195-D.

156485.

Int. Cl. F 16 k 31/00.

#### VALVE ACTUATORS

Applicant : ROTORK CONTROLS LIMITED, OF ROTORK HOUSE, BRASSMILL LANE, BATH BA1 3JQ, ENGLAND.

Inventor : I. JEREMY J. FRY.

Application No. 480/Cal/82 filed April 30, 1982.

Convention dated 30th April, 1981 (8113310) U.K. and 12th March, 1982 (8207297) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 20 Claims

A valve actuator comprising a variable speed motor arranged to drive an output shaft of the actuator through gearing, a speed control circuit for controlling the motor speed comprising speed selector means such as a speed setting potentiometer, by means of which the desired motor speed can be set to different values by first adjustment means, such as a manual adjuster, and a torque limit control circuit which is arranged at least for one rotational direction of said motor to stop said motor when a pre-set torque limit has been exceeded and which comprises a torque sensor arranged to provide a measure of torque from one or more torque-related electrical parameters of the motor and second adjustment means, such as gauged potentiometers, for setting said torque limit control circuit to different torque limits.

Compl. Specn. 20 pages. Drgs. 3 sheets.

CLASS, 48-A.

156486.

Int. Cl. H 01 b 7/00.

#### AN IMPROVED METHOD FOR INSULATING A HELICAL ELECTROMAGNETIC COIL AND THE COILS SO PRODUCED

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA

Inventor : 1. RAYMOND JOSEPH HOKRIGAN.

Application No. 809/Cal/82 filed July 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

An improved method for insulating a helical electro magnetic coil which comprises a plurality of turns, the two turns at opposite ends of the said coil having distal sections that are integrally joined, respectively, to a pair of terminal leads extending beyond the boundary of the coil to provide means for connecting the coil in an electrical circuit, said method comprising the steps of

- (a) wrapping a fluorinated ethylene propylene resincoated polyimide tape around the distal section of each end turn of said coil and around each of said terminal leads, thereby covering the bare surfaces of said sections and said leads with first layers of such tape;
- (b) covering said first layer on each distal section and each terminal lead with another layer of said tape;
- (c) inserting between adjacent turns of said coil thin laminae of fluorinated ethylene propylene resin-impregnated glass cloth which conform to the shape of said turns;
- (d) wrapping said tape around a first part of said coil to form an inner layer of such tape on the exposed surfaces of said first part, said first part excluding the distal sections of both of said end turns but including regions of said coil subtending each of said distal sections;
- (e) covering a central portion of said inner layer on said first part of said coil with at least one additional layer of said tape;
- (f) wrapping said tape around a second part of said coil so as to cover said second part with another inner layer of tape, said second part including a first portion of the distal section of each of said end turns and all exposed surfaces of said coil that were not covered by the first-mentioned inner layer of tape;
- (g) covering said last-mentioned inner layer on said second part of said coil with at least one additional layer of said tape which is wrapped so as to overlap any previously uncovered portions of the inner layer of tape on said first part of said coil and the layers of tape covering a second portion of the distal section of each end turn of said coil;
- (h) heating said coil to at least the melting point of said resin;
- (i) applying pressure to the external surfaces of the various layers of tape on said coil;
- (j) cooling said coil to allow said layers of tape and said laminae to bond to the respectively contiguous turns of said coil; and
- (k) removing said pressure after said resin resolidifies.

Compl. Specn. 22 pages. Drgs. 3 sheets.

CLASS : 69-I.

156487.

CLASS : 47-C.

156489.

Int. Cl. H 01 r 9|00.

**TERMINAL ASSEMBLY FOR CIRCUIT INTERRUPTER.**

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA OF 2-3, MARUNOUCHI, 2-CHOME, CHIYODAKU, TOKYO, JAPAN.

Inventors : 1. YASUSHI GENBA, 2. SHIGEMI TAMARU, 3. TAKAYOSHI ISHIKAWA, 4. KIYOSHI EGUCHI, 5. HIDESHI TAKASHITA.

Application No. No. 812|Cal|82 filed July 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A terminal assembly for a circuit interrupter comprising a plurality of source terminals one for each of phases of the circuit interrupter, a plurality of load terminals disposed in opposite relationship with the source terminals respectively, a plurality of pairs of first and second side plates, each of the first and second side plates including on a front surface thereof grooves into which adjacent ones of lateral surfaces of source and load terminals are fitted and on a rear surface plurality of raised portions alternating recessed portions, the raised and recessed portions being capable of being fitted into and onto mating recessed and raised portion disposed on the rear surface of the other of the first and second side plates, and a plurality of bolts for extending through the first and second side plates, the arrangement being so that each pair of the opposite source and load terminals are carried on both lateral surfaces by one pair of the first and second side plates and connected to adjacent pairs of the opposite source and load terminals through different pairs of first and second side plates connected together into a unitary structure by having the raised and recessed portions on one of the first and second side plates fitted on to the mating recessed and raised portions on the other thereof respectively.

Compl. Specn. 16 pages. Drgs. 2 sheets.

CLASS : 155-A.

165488.

Int. Cl. : D 21 d 3|00.

**AN APPARATUS FOR APPLYING COATING TO BOTH SURFACES OF A MOVING WEB AND METHOD OF COATING BY THE SAID APPARATUS.**

Applicant : BELOIT CORPORATION, OF P.O. BOX 350 BELOIT, WISCONSIN 53511, U.S.A.

Inventor : 1. ROBERT JACOB ALHEID.

Application No. 275|Cal|82 filed March 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Officer, Calcutta.

12 Claims.

Apparatus for applying a coating to both surfaces of a moving web such as paper comprising in combination : means for advancing the web including back-up means having a moving back-up surface for receiving and supporting a first surface of a web as the web is advanced on the back-up surface; first applicator means positioned ahead of the location where the web engages the surface and applying a first coating to the surface so that the coating is transferred to a first surface of the web in a coating zone; and a second applicator means having means for applying a coating to the second surface of the web in said coating zone so that the web is coated on both surfaces as it leaves the back-up surface, said second applicator having means to apply a force to the second surface of the web in said coating zone aiding in the transfer of the first coating to the web from the back-up surface.

Compl. Specn. 16 pages. Drgs. 1 sheet.

Int. Cl. : C 10 b 39|02.

**NOVEL PROCESS AND EQUIPMENT FOR DRY QUENCHING OF HOT COKE DISCHARGED FROM COKE OVEN(S), CARBONISER(S).**

Applicant : PREMIUM COKE MANUFACTURING CO. PVT. LTD., OF RATHORE MANSION, BANK MORE, DHANBAD-826001, BIHAR, INDIA.

Inventor : 1. SRI RAJENDRA KUMAR JALAN.

Application No. 416|Cal|82 filed April 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Officer, Calcutta.

24 Claims.

A process for dry quenching of hot coke discharge from coke oven|carboniser, comprising taking out the incandescent coke mass from the coke oven|carboniser before completion of the carbonisation therein through the scheduled period, feeding the said coke mass in a closed chamber having means for no access of air in the chamber, but to allow exit of air|evolved gas from inside the chamber, allowing the left over carbonisation of the coke to be completed in the said chamber, keeping the coke mass inside the chamber in absence of air for extinction of fire and also for cooling of the coke mass till the temperature of the coke mass falls below a predetermined value, depending on the desired physical and chemical characteristics of the resultant coke, and discharging the cooled coke from the chamber.

Compl. Specn. 29 pages. Drgs. 2 sheets.

CLASS : 9-F; 69-D.

156490.

Int. Cl. : C 22 c 31|00.

**METHOD OF PREPARING IMPROVED ELECTRICAL CONTACTS MADE OF SILVER ALLOY.**

Applicant : CHUGAI DENKI KABUSHIKI-KAISHA, OF 13|3, NIHONBASHI-KAYABACHO 2-CHOME, CHUO-KU, TOKYO, JAPAN.

Inventor : 1. MR. AKIRA SHIBATA.

Application No. 583|Cal|82 filed May 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A method of preparing improved electrical contacts made of silver alloy, such as herein described, comprising melting the alloy, making ingot therefrom and preparing plates from the ingot in the manner known per se, subjecting the said plates to internal oxidation, and obtaining electrical contacts from the said plates in the manner such as herein described, characterised in that the said plates are subjected, prior or subsequent to the internal oxidation, to an atmosphere and temperature, such as herein described, so as to induce the lowering of intensity or concentration of solute metal elements including tin or oxides thereof contained in the alloy, and lying at and adjacently to the contact or outer surfaces thereof.

Compl. Specn. 11 pages. Drgs. 3 sheets.

CLASS : 102-C.

156491.

Int. Cl. : F 16 h 41/32; G 01 f 1/00.

**IMPROVEMENTS IN AXIAL TURBINE FLOW-METERS.**

Applicant : FLONIC, OF 12 PLACE DES ETATS-UNIS, B.P. 422, 92541 MONTROUGE CEDEX, FRANCE.

Inventor : 1. ROLAND LETT.

Application No. 1135/Cal/882 filed September 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**2 Claims.**

Improvements in axial turbine, flowmeters of the type comprising, in a tubular conduit (10) intent end to be traversed by a fluid to be measured, a turbine (ii) carrying blades (13) at the periphery of a cylindrical hub (12) and mounted for free axial rotation between two fixed fairings, on upstream (14) and the other downstream (15) means for creating a zone of reduced pressure of approximately constant value beside the upstream face of the said hub, and means for providing a zone of pressure beside the downstream face of the said hub, the improvements being characterized in that the said means for providing a zone of pressure beside the downstream face of the hub comprises a combination of the relative profiles of the downstream extremity of the hub (12) and of the downstream fairing (15), the profile of the hub having at this location (20) an increased diameter, and the profile of the fairing having a hollow cylindrical portion (15a) dimensioned to allow the downstream extremity of the hub to extend into the interior of the said fairing, such that the hydrodynamic pressure on the turbine arising from the flow of fluid is continuously turbine by the difference in pressures created on either side of the hub of the turbine.

Compl. Specn. 10 pages Drgs. 2 sheets.

CLASS : 108-C<sub>1</sub>.

156492.

Int. Cl. : C 21 c 5/30.

**PROCESS FOR PRODUCING STEEL IN A CONVERTER FROM PIG IRON AND FERROUS SCRAP.**

Applicant : HOOGOVENS GROEP B.V., OF P.O. BOX 10.000, 1970 CA HILMUIDEN, THE NETHERLANDS.

Inventors : 1. PIETER JOB KREIJGER, 2. GERARDUS PHILLIPUS BUHRMANN.

Application No. 339 Cal/83 filed March 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**9 Claims.**

Process of producing steel in a converter, wherein the starting materials comprise pig iron and ferrous scrap and wherein oxygen is blown into the molten metal bath in the converter, the process comprising the combination of the following process steps, the steps (a) and (b) being substantially simultaneous and the step (c) being performed during the initial period of the steps (a) and (b) :—

(a) during at least part of the time of blowing oxygen into the bath, inert gas is passed through the bottom of converter into the bath.

(b) during at least part of the time of blowing oxygen into the bath, secondary oxygen is blown into the atmosphere above the bath.

(c) at least once during the time of blowing oxygen into the bath, carbon is added to the reaction from above.

Compl. Specn. 25 pages. Drgs. 5 sheet.

CLASS : 32-F<sub>1</sub> 32-F<sub>2</sub> a + 55-D<sub>2</sub>

156493.

Int. Cl. : C 07 c 127/00; A 01 n 9/00.

**A PROCESS FOR THE PREPARATION OF A NOVEL 1-(ALKYL-PHENOXYARYL)-3-BENZOYL UREAS.**

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT (06817) UNITED STATES OF AMERICA.

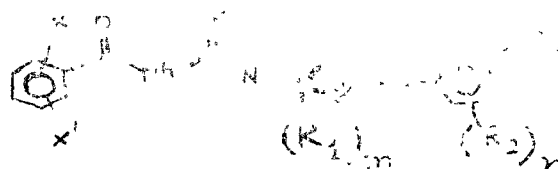
Inventors : 1. DAVID TEH-WEL CHOU, 2. PAUL ALFRED CAIN.

Application No. 806 Cal/83 filed June 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims.**

A process for the preparation of a novel 1-(alkyl-phenoxyaryl)-3-benzoyl urea of formula I shown in the accompanying drawings,

Wherein  
X, X

are independently hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub> alkyl, haloalkyl, polyhaloalkyl, alkoxy, polyhaloalkoxy

Y

represents oxygen or sulphur;

m, n

are 0-4;

R<sub>1</sub>

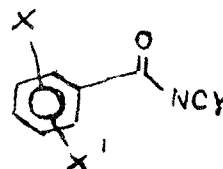
represents hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub> alkyl, haloalkyl, polyhaloalkyl, alkoxy,

R<sub>2</sub>

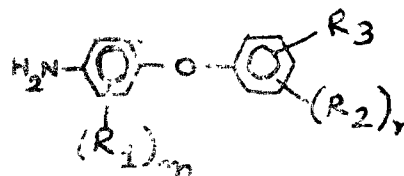
represents hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub> alkyl, polyhaloalkyl, polyhaloalkoxy, C<sub>1</sub>-C<sub>8</sub> alkylsulfonyl, C<sub>1</sub>-C<sub>8</sub> alkoxy, C<sub>1</sub>-C<sub>8</sub> alkylthio, C<sub>1</sub>-C<sub>8</sub> dialkylamino, CN, NO<sub>2</sub>, CO<sub>2</sub>, R<sub>4</sub>, CONHR<sub>4</sub> wherein R<sub>4</sub> represents C<sub>1</sub>-C<sub>8</sub> alkyl; and

R<sub>3</sub>represents C<sub>1</sub>-C<sub>12</sub> alkyl.

which comprises reacting a benzoyl isocyanate or a benzoyl isothiocyanate of the formula 10 shown in the drawings,



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, m and n have the same meanings as with an alkylphenoxyaniline of the formula 9 shown in the drawings,



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, m and n have the same meanings as given above;

and thereafter recovering in a known manner said compound of formula 1.

Compl. Specn. 45 pages. Drgs. 3 sheets.

CLASS : 25-C; 35-E.

156494.

Application No. 657/Cal/82 filed June 8, 1982.

Int. Cl.: F 27 d 1/06.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## IMPROVEMENTS RELATING TO REFRACTORY INSULATING MODULES.

12 Claims.

Applicant : M. H. DETRICK CO. LIMITED, OF 275/281, KING STREET, HAMMERSMITH, LONDON, ENGLAND.

Inventor : 1. BARRIE JOHN HARVEY.

Application No. 377/Cal/76 filed March 2, 1976.

Convention dated 7th March, 1975 (9680/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A refractory and thermally insulating module comprising an open box like body which is moulded in one piece from ceramic fibre, the body having a front wall, the front face of which constitutes the hot face of the module, and side walls; a separate back wall which is formed of refractory insulating material and secured to the side walls of the body in spaced relation to the front wall thereof; and refractory insulating material enclosed in the space bounded by the front and side walls of the body and the separate back wall.

Compl. Specn. 16 pages. Drgs. 5 sheets.

CLASS : 85-G: 90-A &amp; I.

156495.

Int. Cl. C 03 b 29/04, 25/00

## GLASS SHEET ROLLER CONVEYOR FURNACE INCLUDING GAS JET PUMP HEATING.

Applicant & Inventor : HAROLD ASHLEY McMASTER OF 707 RIVERSIDE DRIVE, WOODVILLE, OHIO 43469, UNITED STATES OF AMERICA.

Application No. 154/Cal/82 filed February 9, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A glass sheet heating furnace comprising a housing defining a heating chamber; a roller conveyor comprising horizontally extending rolls for conveying glass sheets horizontally through the heating chamber for heating thereof; at least one gas jet pump within the heating chamber; a source of compressed gas located externally of the heating chamber and communicated with the gas jet pump to supply a primary gas flow thereto in order to induce a secondary gas flow and provide a combined flow of heated gas along a flow direction, and said gas jet pump being oriented with the flow direction directed towards the conveyor such that the combined flow of heated gas from the gas jet pump is directed toward the conveyor to provide forced convection heating of conveyed glass sheets during conveyance thereof on the rolls of the conveyor with the bottom glass sheet surfaces in continuous engagement with the conveyor rolls.

Compl. specn. 26 pages. Drgs. 3 sheets.

CLASS : 136-E.

156496

Int. Cl. C 08 f 47/08.

## A METHOD AND APPARATUS FOR OBTAINING EXTRUDED CELLULAR POLYMERIC RESIN PRODUCT.

Applicant : THE B.F. GOODRICH COMPANY, 277 PARK AVENUE NEW YORK, NEW YORK 10017 UNITED STATES OF AMERICA.

INVENTOR : 1. HEUNG-TAI KIM.

A method for obtaining extruded cellular polymeric resin product comprising the steps of charging a particulate polymeric resin into an extruder having disposed therein an elongated screw, conveying said particulate resin through the extruder, densifying said particulate resin in a compaction section, forming a continually moving barrier of said densified resin that is substantially impervious to a blowing agent at a location downstream of the compaction section, injecting a blowing agent downstream of the barrier into said solid particulate resin, mixing said solid particulate resin and said blowing agent, melting said mixture of said resin and said blowing agent and extruding and molten mixture into a zone of lower pressure whereupon the blowing agent expands within said molten resin to form a cellular product which are rigid foams of predominantly closed cell structure.

Comp. Specn. 21 pages. Drgs. 1 sheet.

CLASS : 172-E.

156497.

Int. Cl. B 65 h 54/00.

## A METHOD AND APPARATUS FOR MANUFACTURING ARTICLES SUCH AS FOR EXAMPLE ARTICLE OF AIR-FOIL CROSS-SECTIONAL SHAPE BY FILAMENT WINDING.

Applicant : UNITED TECHNOLOGIES CORPORATION, OF 1, FINANCIAL PLAZA, HARTFORD, CONNECTICUT 06101, UNITED STATES OF AMERICA.

Inventors : 1. DALE EVANS SMITH, 2. WARREN HILL PINTER.

Application No. 836/Cal/82 filed July 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A method of manufacturing articles such as for example an article of airfoil cross-sectional shape as herein defined by filament winding technique comprising the steps of providing a plurality of continuous elongate filaments, forming a band of said filaments by the juxtaposition thereof in mutually spaced, parallel relationship, treating said filament band with an adhesive such that said adhesive is taken up by said filaments, passing said band through a winding eye and winding said filament around a mandrel to form said article.

said method comprising the step of drawing said band through a guide (135) fixed with respect to said winding eye (110) subsequently to passing said band therethrough, said guide (135) causing said winding eye (110) to impart a uniform angular displacement to said band for maintenance of band width uniformity irrespective of asymmetrical mandrel shapes.

Compl. Specn. 9 pages. Drgs. 1 sheet.

CLASS : 134-B.

156498.

Int. Cl. F 16 d 13/00.

## FRICTION CLUTCH BRAKES FOR USE IN VEHICLES.

Applicant : DANA CORPORATION, OF P. O. BOX 1000, 4500 DORR STREET TOLEDO, OHIO 43697 U.S.A.

Inventors : 1. RICHARD ALLEN FLOTOW, 2. WILLIAM HOWARD SINK.

Application No. 986/Cal/82 filed August 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

An improved friction clutch brake mountable on a rotatable shaft, said clutch brake comprising a brake assembly for driving engagement with said shaft, and said clutch brake further comprising a cover assembly having an outer friction surface, said cover assembly mounted for relative rotation on said brake assembly, the improvement comprising an axially resilient friction member positively engaged with said cover assembly and frictionally engaged with said brake assembly.

Compl. Specn. 10 pages. Drgs. 3 sheets.

CLASS : 40-H.

156499.

Int. Cl. F 25 J 3/00.

A METHOD OF PRODUCING ENRICHED METHANE AND CARBON DIOXIDE PRODUCTS.

Applicant : KOCH PROCESS SYSTEMS, INC., 20 WAL-KUP DRIVE WESTBOROUGH, MASSACHUSETTS 01581, UNITED STATES OF AMERICA.

Inventor : 1. JOHN VINCENT O'BRIEN.

Application No. 1143/Cal/82 filed October 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims.

A method of producing enriched methane and carbon dioxide products by distillatively separating a feed stream containing methane and carbon dioxide into an overhead product enriched in methane and a bottoms product enriched in carbon dioxide, comprising :

- (a) introducing said feed stream into distillation column;
- (b) providing sufficient head to the bottom of said distillation column to provide a bottoms product enriched in carbon dioxide with respect to the feed and based upon a binary of methane and carbon dioxide;
- (c) withdrawing an overhead stream from the top of said column ;
- (d) condensing at least a portion of said overhead stream for reflux in an overhead condenser at a temperature above the triple point of carbon dioxide and directing said condensed portion of overhead back to said column as reflux, said condensed portion being sufficient to provide a column overhead enriched in methane;
- (e) introducing a non-polar agent mixcible with methane into the condenser of said distillation column in a quantity sufficient to maintain the temperature in the condenser and at all locations within the distillation column above the triple point of carbon dioxide ;
- (f) withdrawing that portion of overhead not employed as reflux as overhead product enriched in methane; and,
- (g) withdrawing bottoms enriched in carbon dioxide.

Compl. Specn. 20 pages. Drgs. 1 sheet.

CLASS : 32-F<sub>2</sub> c.

156500

Int. Cl. C 07 c 103/02

PROCESS FOR THE MANUFACTURE OF PURE STORAGE-STABLE ACETOACETAMIDE.

Applicant : WECKER-CHEMIE GMBH, PRINZREGENTENSTRASSE 22, 8000 MUNCHEN 22, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. GERHARD KUNSTIE, 2. HERBERT JUNG.

Application No. 1220 Cal/81 filed November 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

Process for the manufacture of storage-stable acetacetamide, having a purity of at least 99%, by reacting diketene and ammonia in the presence of chlorinated hydrocarbons, characterised in that the reaction is carried out with an excess of diketene of from 0.01 to 2% of the theoretical amount and at temperatures of less than -10°C.

Compl. Specn. 15 pages. Drgs. 1 sheet.

CLASS : 205 B & G

156501.

Int. Cl. B 60 c 15/02, B 29 h 17/22, 17/26.

TIRE BUILDING MACHINE.

Applicant : NRM CORPORATION OF 3200 GILCHRIST ROAD, P.O. BOX 6338, AKRON, OHIO-44312, U.S.A.

Inventor : 1. GEORGE E. ENDERS.

Application No. 455/Cal/81 filed April 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A tire building machine comprising a tire building drum adapted to receive tire plies wrapped thereabout with the edges of the plies extending beyond the ends of the drum, an inflatable annular bladder extending axially outwardly from one end of said drum, an annular support for said bladder, and a bead setter and bladder pusher mechanism at said one end of said drum and movable axially of said drum selectively to set a bead in proper position on said drum and to push the bladder when inflated to said mechanism including a bead setting and bladder when inflated to cause the ply edges to be wrapped around the bead and stitched securely; said mechanism including a bead setting and bladder pushing ring, said ring having an axially inner face adapted for selective engagement with the tire bead and bladder, a short radially inner annular surface extending axially outwardly from said face for restricting expansion of a portion of the bladder rearwardly of said face when inflated and a rounded inner peripheral edge forming a bead projecting beyond said annular surface at said face adapted to grip the bladder when inflated to prevent relative sliding movement of the bladder and ring during bladder push

Compl. Specn. 20 pages. Drgs. 5 sheets.

CLASS : 97-H; 85 C, G & I

156502.

Int. Cl. H 05 b 7/02, 7/06, 7/12, 7/18.

ELECTRODE FOR ARC FURNACES

Applicant : ARC TECHNOLOGIES SYSTEMS LTD., TER HORST ZOLLNER, 3. DR. JOSEF OTTO, 4. JOSEF WEST INDIES.

Inventors : 1. DR. HANS GEORG BAUER, 2. DR. DIETER HORST ZOLLNER, 3. DR. JOSEF OTTO, 4. JOSEF MUHLENBECK, 5. FRIEDRICH RITTMANN, 6. CLAUDIO CONRADTY, 7. LAUTERBACH DAMMIER, 8. HORST SONKE.

Application No. 1166/Cal/81 filed October 21, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 22 Claims

An electrode for arc furnaces, comprising a top portion of metal and a replaceable bottom portion of consumable mate-



rial, the portions being substantially cylindrical and being connected to each other by means of a screwmounting, wherein said top portion has a liquid cooling device comprising a header duct and a return duct, and wherein the bottom region of said top portion is protected by a detachably mounted moulding of high temperature stability.

Compl. Specn. 16 pages. Drgs. 3 sheets.

CLASS : 83-C, G & 1 97-A & B, 156503

Int. Cl. H 05 b 7/02, 7/06, 7/12, 7/18.

#### ELECTRODE FOR ARC FURNACES.

Applicant : ARC TECHNOLOGIES SYSTEMS LTD. BOX 61 GRAND CAYMAN, CAYMAN ISLANDS. BRITISH WEST INDIES.

Inventors : 1. DR. HANS-GEORG BAUER, 2. DR. DIETER HORST ZOLLNER, 3. DR. JOSEF OTTO, 4. JOSEF MUHLENBECK, 5. FRIEDRICH RITTMANN, 6. DIPL. ING. CLAUDIO CONRADTY, 7. DR. INGE TAUTER-BACH-DAMMLER, 8. HORST SONKE.

Application No. 1167/Cal/81 filed October 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 37 Claims

An electrode for arc furnaces, comprising a top portion of metal and a replaceable bottom portion of consumable material, the portions being substantially cylindrical and being connected to each other by screw-mounting, wherein the top portion is provided with a liquid cooling device having a header and a return duct and has an inner part and an outer part detachable from one another, wherein said inner part substantially extends close to the screwmounting and wherein at least a part zone of the inner part is protected by a detachable moulding of high temperature stability.

Compl. Specn. 24 pages. Drgs. 5 sheets

CLASS : 158-D. 156504.

Int. Cl. B 61 g 9/20

#### A STRIKER FOR A RAILWAY COUPLER.

Applicant : MCCONWAY & FORLEY CORPORATION, AT 109 48TH STREET, PITTSBURGH, PENNSYLVANIA 15201, UNITED STATES OF AMERICA.

Inventor : I. WILLIAM OWEN ELLIOTT

Application No. 1047/Cal/82 filed September 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

A striker for attachment to a sill of a railway vehicle to transmit forces from a draft key engaged with the shank of a coupler, said striker comprising top, bottom and side walls projecting from a front striker face defining a pocket opening for receiving a shank portion of a coupler said bottom wall extending between a forward lower part of said side walls for supporting the shank portion of the coupler while extending into said pocket opening, and side walls having aligned horizontal key slots to receive portions of said draft key, front draft flues on end portions of said side walls facing opposite said striker face for arrangement in a force-transmitting relation with a coupler draft gear, and endless ribs each essentially surrounding one of said key slots and projecting outwardly from said side walls for attachment to said sill of the railway vehicle.

Compl. Specn. 22 pages. Drgs. 3 sheets.

2—197 GI/85

CLASS : 39-G & P 4-40-F

156505

Int. Cl. B 01 d 15/00, C 01 g 45/00.

#### PROCESS FOR REMOVING MOLYBDENUM FROM AQUEOUS MANGANESE SALT SOLUTIONS.

Applicant : HOLCHST AKTIENGESSELLSCHAFT, D 6230 FRANKFURT AM MAIN-RO FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. LEBERHARD PREISLER, 2. DR. BERNHARD HOFMANN, 3. DR. GERHARD NOLTE

Application No. 1163/Cal/82 filed December 18, 1982

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

Process for removing molybdenum from aqueous manganese (II) salt solutions by adsorbing the molybdenum on manganese dioxide and separating adsorbent and adsorbate from the purified manganese (II) salt solution, which comprises : establishing a pH-value lower than 5 in the manganese salt solution; adding, at temperatures between 50 and 80°C, and oxidant having an oxidation potential sufficient for oxidizing manganese (II) compounds to manganese (IV) compounds and thereby effecting the oxidation of a small proportion of dissolved manganese (II) salt to manganese dioxide; allowing resulting precipitate to remain in contact over a period of at least 15 minutes with the manganese (II) salt solution, and separating the precipitate from said solution at said temperatures.

Compl. Specn. 12 pages. Drgs. 4 sheets.

CLASS : 32-F2 a, b, c, 4 32-G

156506

Int. Cl. A 61 k 15/00; C 07 c 87/00, 119/00.

#### PROCESS FOR THE PREPARATION OF ENAMINES.

Applicant : TAKASAGO PERLUMERY CO., LTD., OF NO. 19-22, TAKANAWA 2 CHOME, MINATO-KU, TOKYO, JAPAN.

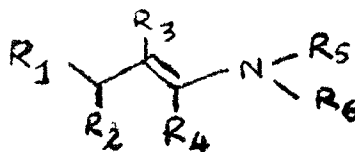
Inventors : 1. SEINOSUKE OTSUKA, 2. KAZUHIDE FANI, 3. TSUNEAKI YAMAGATA, 4. SUSUMU AKUTAGAWA, 5. HIDEYORI KUMOBAYASHI, 6. MISAO YAGI.

Application No. 1500/Cal/82 filed December 28, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

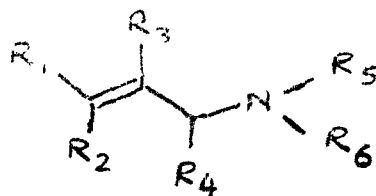
#### Claim 1

A process for preparing an enamine represented by formula (II) of the accompanying drawings,



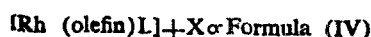
wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are each hydrogen, an alkyl group containing from 1 to 6 carbon atoms, an alkenyl group containing from 2 to 6 carbon atoms, an aryl group containing from 6 to 12 carbon atoms, or a phenyl group; R<sub>5</sub> and R<sub>6</sub> may be substituted by one hydrogen group; R<sub>5</sub> is hydrogen, an alkyl group containing from 1 to 8 carbon atoms, or a cycloalkyl group containing from 3 to 8 carbon atoms, or R<sub>6</sub> is an alkyl group containing from 1 to 8 carbon atoms or a cycloalkyl group

containing from 5 to 8 carbon atoms; or  $R_1$  and  $R_2$  may combine together in combination with the adjacent nitrogen atom to form a 5- or 6-membered ring wherein all the remaining ring atmosphere carbon atoms, or a 6-membered ring containing an oxygen atom and 4 carbon atoms; which comprises isomerizing an allylamine derivative represented by formula (I) of the drawings.

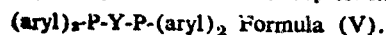


wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are the same as for formula (II),

in the presence of a catalyst of a rhodium complex represented by formula (IV) :

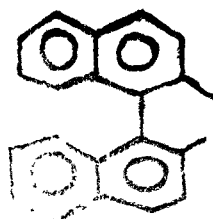
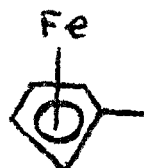
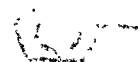
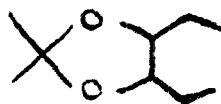
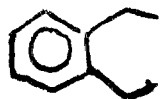


wherein olefin represents ethylene, 1, 3-butadiene, norbornadiene or cycloocta-1, 5-diene; X represents  $\text{ClO}_4$ ,  $\text{BF}_4$  or  $\text{PF}_6$ ; and L represents two triarylphosphines wherein the aryl moiety is a phenyl, a tolyl or a naphthyl group or a tri-valent phosphorus compound derivative represented by formula (V)



wherein the aryl moiety is a phenyl, a tolyl or a o, o'-biphenyl group and Y represents  $-(\text{CH}_2)_3-$ ,  $-(\text{CH}_2)_4-$ .

$(\text{CH}_2)_3-$ , figure (1), figure (2), figure (3) or figure (4) of the drawings.



Compl. Specn. 31 pages. Drgs. 3 sheets.

CLASS : 83-A1+83-B1 +8

156507

Int. Cl. A 23 j 1/00; A 23 i 1/00.

IMPROVEMENTS IN A METHOD FOR PREPARING FERMENTED SUNFLOWER MEAL.

Applicant : E.N.I. ENTE NAZIONALE IDROCARBURI, OF P. LE E. MATTEI 1, ROME, ITALY.

Inventors : 1. MARCO CANELLA, 2. DANIELE MARGHINOTTI, 3. ADRIANO BERNARDI, 4. GIANCARLO SODINI.

Application No. 670/Cal/83 filed May 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a method for preparing fermented sunflower meal by heterolactic fermentation of an aqueous suspension of the de-oiled meal the improvement comprising acidifying the aqueous suspension to a pH within the range of 4.0 to 5.5, while maintaining the temperature within the range of 30°C to 40°C for 24 to 72 hours.

Compl. Specn. 23 pages. Drgs. Nni.

CLASS : 33-D.

156508.

Int. Cl. B 22 d 37/00.

METAL POURING APPARATUS AND METHOD.

Applicant : FLOGATES LIMITED, OF SANDIRON HOUSE, BEAUCHIEF, SHEFFIELD S7 2RA, ENGLAND.

Inventor : 1. ANTHONY THROWER.

Application No. 104/Cal/82 filed January 27, 1982.

Convention dated 12th February, 1981 (8104359) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A bottom pour vessel for molten metal teeming via a sliding gate valve attached thereto, the vessel having a well block in a bottom pour opening of the vessel, the well block having a bore defining a flow passage and a lower part of the well block accommodating an internal nozzle for conveying to the valve melt in use flowing into the flow passage part of the well block, the vessel further having a gas conduit leading into and through the well block to a gas outlet opening located either in the wall of the bore defining the flow passage part of the well block above the nozzle, or in the said wall below but adjacent the location of an upper extremity of the nozzle, for gas to enter the well via the joint between the nozzle and the well block bore.

Compl. Specn. 14 pages. Drgs. 1 sheet.

CLASS : 50-F

156509.

Int. Cl. F 25 d 23/00.

A REFRIGERATOR OR COOLER UNIT.

Applicant : VAPOR CORPORATION OF 6420 WEST HOWARD STREET, CHICAGO, ILLINOIS 60648, UNITED STATES OF AMERICA

Inventor : 1. SHI OMO BETTNER

Application No. 150/Cal/82 filed February 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

A system for retrieving and/or launching aircraft including gantry means 3, 5 adapted for mounting on a surface station 1, an aircraft capable of hovering in a substantially stationary position with respect to the gantry means, releasable engagement means 9, 10 adapted to allow substantially the whole of the weight of the aircraft to be carried by the gantry means, the releasable engagement means including a pair of comple-

mentary engagement members one 10 provided on the aircraft in the region of its centre of gravity and the other 9 provided on the gantry means, the system being arranged such that a carried aircraft when released by disengagement of the engagement members can adopt an in-flight self-supported station-keeping position, and such that an aircraft to be carried having adopted said station-keeping position, can be retrieved from said position for carrying engagement by the engagement means.

Compl. specn. 17 pages. Drgs. 4 sheets.

CLASS : 105-C.

156513.

Int. Cl. G 11 b 7/00.

# BINARY HOLOGRAM TRANSDUCER USING MAGNETIC BUBBLES.

Applicant & Inventor : V. GURUPRASAD, C/O. V.V.S. RAU, VIDYAPEETHA CIRCLE, BANGALORE-560028.

Application No. 719/Ca/82 filed June 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A binary hologram transducer, herein also called transducer, for the purpose of either obtaining, in a process herein called recording, a record, which is an electrical signal containing a sequence of bits of information and is herein also called recorded hologram, from an optical hologram, which is an interference pattern of visible, infra-red or ultraviolet light produced on a surface by a coherent plane polarized beam of such light, herein called reference beam, and the light of similar nature emitted or scattered, that is reflected or diffracted, by an object or a scene and herein called object light, meeting and interfering on that surface or otherwise, or obtaining, in a process herein called display, an optical image, which is an image of an object or a scene produced with visible, infrared or ultraviolet light, from a record of the optical hologram of the said object or scene, the transducer being characterised in that for any hologram, a fixed set of points in the optical hologram is considered for the recording or the display, these points being herein called sampling points and the process of the said consideration being herein called sampling, and in that the sampling is achieved using the Faraday effect in one or more magnetic bubble devices which are present in the transducer, and which limit the number and the choice of the sampling points by their structure and are transparent to the light being used, and in that, during the recording of an optical hologram, the sampling is effected by the presence or absence of one or more magnetic bubbles, herein called sampler bubbles, which are made to transverse along the sampling points in a fixed sequence, herein called sampling sequence, and by the positioning of the magnetic bubble device immediately under the optical hologram, such that the optical hologram is formed just over the magnetic bubble device and such that only that portion of the hologram immediately above a sampler bubble is measured for its optical intensity by a photodetector suitably placed so as to receive the light that is transmitted, or would have been transmitted, through the portion of the magnetic bubble device which is occupied by a sampler bubble, and that the output of the photodetector is suitably processed to form the record, and in that, during the display of a recorded hologram, first the entire record is stored in one or more magnetic bubble devices such that in each magnetic bubble device the presence of a magnetic bubble at a location corresponding to a sampling point corresponds to the value of one bit of information corresponding to that sampling point in the recorded hologram, and such that the storing of the record follows the same sampling sequence, and then, after completion of the storing process, the magnetic bubble devices are illuminated by a coherent plane polarized beam of light, herein called reconstruction beam, such that the light is first allowed to pass through each of the one or more magnetic bubble devices in succession and then allowed to diffract and interfere to form the optical image.

Compl. Specn. 12 pages. Drgs. 2 sheets.

## OPPOSITION PROCEEDINGS

(1)

The position entered by Lakhanpal National Limited, Baroda, to the grant of a patent on application No. 147577 made by Toshiba Anand Batteries Limited, Cochin, as notified in Part-III, Section 2 dated the 5th December, 1980 has been dismissed and the patent sealed.

(2)

An opposition has been entered by Usha Breco Limited to the grant of a patent on application No. 155169 made PHB Weserhutte A.G.

(3)

An opposition has been entered by Research, Designs & Standards Organisation, Ministry of Railways, Lucknow to the grant of a patent on application No. 146120 made by Pandrol Limited as notified in the Gazette of India, Part-III, Section 2 dated the 8th September, 1979 has been allowed and the grant of a patent is refused.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by KRW ENERGY SYSTEMS INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 153902 in their name has been allowed.

(2)

The claim made by Research against Cancer Inc under Section 20(1) of the Patents Act 1970, to proceed the application for Patent No. 148115 has been allowed

(3)

The claim made by PLESSEY OVERSEAS LIMITED under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 152794 in their name has been allowed.

## PATENTS SEALED

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## CESSATION OF PATENTS

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## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 155171. Bansi Lal Safaya, an Indian national, of 9, Telegraph Place, Gole Market, New Delhi-110001, India. "A Stretcher Trolley". 14th December, 1984.

Class 1. No. 155328. New Friend & Company Private Limited, A Company incorporated under the Companies Act, 5-Bhamshah Marg, Delhi-110009, India, an Indian Company. "Time Piece". 25th January, 1985.

Class 1. No. 155358. Abdul Qadir and Abdul Rashid, both Indian Nationals, D-8, Kalindi Colony, New Delhi. "Brick". 2nd February, 1985.

Class 1. No. 155360. Abdul Qadir and Abdul Rashid, both Indian Nationals, D-8, Kalindi Colony, New Delhi. "Brick". 2nd February, 1985.

Class 3. No. 155162. Dynam Plastics, a Registered Indian Partnership Firm, carrying on business at 15, Unique House, Opposite Bombay Samachar, 25, S.A. Brelvi Road, Bombay-400 001, Maharashtra. "Adjustable Modular Container". 11th December, 1984.

Class 3. No. 155170. Kingsway Enterprises Pvt. Ltd., an Indian Company, of 12, Sham Nath Marg, New Delhi-110054, India. "Retractable Writing Instrument". 14th December, 1984.

Class 3. No. 155735. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate Talegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask Refill". 30th May, 1985.

Class 3. No. 155738, 155740, 155742, 155745. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask Refill". 30th May, 1985.

Class 3. Nos. 154862, 154863, 154864, 154865, 154866, 154867, 154868. A & P Engineers, having its registered office at 303, Shalaka, Maharshi Karve Road, Bombay 400 021, Maharashtra, India, a registered partnership firm "Plate used for reproduction of design". 21st September, 1984.

Class 3. No. 155194. Harbans Lal Malhotra & Sons Ltd., of of P-12, New C.I.T. Road, Calcutta-700073, West Bengal, India, a Company incorporated under the Companies Act, 1956. "Safety Razor". 19th December, 1984.

Class 3. No. 155385. Tobu Enterprises Private Limited. 8/29-Kirti Nagar Industrial Area, New Delhi-110015, India. An Indian Company. "Seat". 12th February, 1985.

Class 4. No. 155357. Abdul Qadir and Abdul Rashid, both Indian Nationals, D-8, Kalindi Colony, New Delhi. "Brick". 2nd February, 1985.

Class 4. No. 155359. Abdul Qadir and Abdul Rashid, both Indian Nationals, D-8, Kalindi Colony, New Delhi. "Brick". 2nd February, 1985.

Class 4. No. 155361. Abdul Qadir and Abdul Rashid, both Indian Nationals, D-8, Kalindi Colony, New Delhi. "Brick". 2nd February, 1985.

Class 4. No. 155372. Ambitious Gold Nib Mfg. Company Private Limited. C-101-Phase-II, Mayapuri, New Delhi-110064. "Pen". 11th February, 1985.

Class 10. No. 155571. Liberty Enterprises, Central House Railway Road, Karnal-132001, Haryana (an Indian Partnership Concern). "Shoe". 15th April, 1985.

*Extn. of Copyright for the Second period of five years.*  
Nos. 149688, 149689. .... Class-3.

*Extn. of Copyright for the Third period of five years.*  
No. 143190. .... Class-1.  
Nos. 143209, 143210, 143211. .... Class-3.

R. A. ACHARYA

Controller General of Patents, Designs and  
Trade Marks